

Title (en)
Substrate used for exhaust gas purification and method of fabrication thereof

Title (de)
Substrat zur Reinigung von Abgas und Verfahren zu seiner Herstellung

Title (fr)
Substrat pour la purification de gaz d'échappement et son procédé de fabrication

Publication
EP 1403477 B1 20110727 (EN)

Application
EP 03021539 A 20030924

Priority
JP 2002279517 A 20020925

Abstract (en)
[origin: EP1403477A2] A method of fabricating a substrate (1) used for purifying an exhaust gas is provided. This method comprises the step of transforming a pre-mold (10) having a first end, a second end, a plurality of partition walls (4) extending between the first end and the second end, the first transforming step for transforming the end portions of the partition walls (4) at the first end in such a manner that the ends of the partition walls (4) defining one of two adjacent passages (2,3) at the first end of the pre-mold (10) are collected toward the center of a corresponding passage and connected to each other, and the second transforming step for transforming the ends of the partition walls (4) at the first end in such a manner that the end surfaces of the partition walls (4) at the first end are depressed toward the center of each of the end surfaces.
[origin: EP1403477A2] A substrate for purifying an exhaust gas, comprises a first end; a second end; partition walls extending between the first and second ends; and passages defined by the partition walls. The ends of the partition walls at the first end of the substrate defining one of each two adjacent passages are collected toward the center of a corresponding passage and connected with each other. A substrate for purifying an exhaust gas, comprises a first end; a second end; partition walls (4) extending between the first and second ends; and passages (2, 3) defined by the partition walls. The ends of the partition walls at the first end of the substrate defining one of each two adjacent passages are collected toward the center of a corresponding passage and connected with each other. The end surface of the partition wall ends at the first end of the substrate is depressed toward the center of the end surface. The ends of the partition walls at the second end of the substrate defining the remaining one of the two adjacent passages are collected toward the center of the corresponding passage and connected with each other. The end surface of the partition walls at the second end of the substrate is depressed toward the center of the end surface. An independent claim is also included for a method of fabricating a substrate used for purifying an exhaust gas includes forming a pre-mold including a first end, a second end, partition walls extending between the first and second ends, and passages defined by the partition walls. The first transforming step for transforming the ends of the partition walls at the first end of the pre-mold defines one of each two adjacent passages in such a manner that the ends of the partition walls are collected toward the center of the corresponding passage and connected to each other. The second transforming step for transforming the ends of the partition walls at the first end of the pre-mold in such a manner that the end surface of each of the partition walls at the first end of the pre-mold is depressed toward the center of the end surface.

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Cited by
EP3303258A4; WO2007145548A1; WO2005097446A1; US8601796B2; US10940420B2

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